## HUNTINGTON SERVICE LANE RENOVATIONS

8101 CINDER BED ROAD LORTON, VA 22079

**MOUNT VERNON DISTRICT** 

CONTRACT NO. 12100501

FUND NO. 400-C40000

DEPARTMENT OF TRANSPORTATION

APPLICANT
FAIRFAX COUNTY DEPARTMENT OF
TRANSPORTATION
4050 LEGATO ROAD
SUITE 400
FAIRFAX, VA 22033-2895

FAIRFAX COUNTY BOARD OF SUPERVISORS
12000 GOVERNMENT CENTER PARKWAY
SUITE 553
FAIRFAX, VA 22035

SHEET INDEX

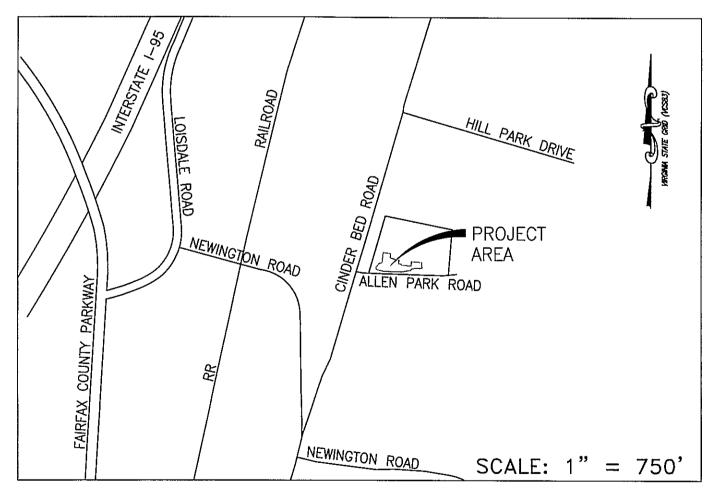
OO1. COVER SHEET
OO2. SPECIAL PERMIT EXHIBIT PLAT
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OO5. BUILDING ELEVATIONS
OO6. TREE PRESERVATION &
LANDSCAPE PLAN

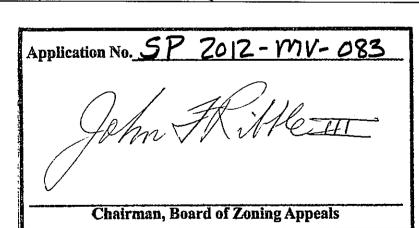


OCTOBER 16, 2012

SPECIAL PERMIT PACKAGE

VICINITY MAP





Zoning Evaluation Division

THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH

ROAD AND BRIDGE STANDARDS, DATED FEBRUARY 2008 WORK AREA PROTECTION MANUAL, DATED JANUARY 2011

ROAD AND BRIDGE SPECIFICATIONS, DATED 2007

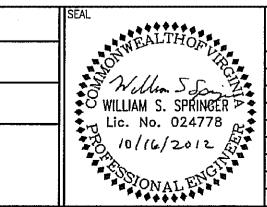
THE VIRGINIA DEPARTMENT OF TRANSPORTATION'S:

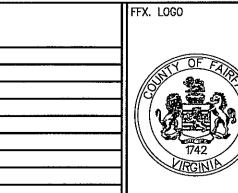
10306 EATON PLACE
WILLOW WOOD II, SUITE 240
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ENERGY SERVICES • CONSTRUCTION MANAGEMENT





DEPARTMENT OF PUBLIC WORKS & ENVIRONMENTAL SERVICES
COUNTY OF FAIRFAX, VA

HUNTINGTON SERVICE LANE RENOVATIONS

MOUNT VERNON DISTRICT
8101 CINDER BED ROAD

MOUNT VERNON DISTRICT
8101 CINDER BED ROAD

FAIRFAX COUNTY, VIRGINIA

COVER SHEET

DATE

AS NOTED

DATE: 00

10/16/12







FAIRFAX COUNTY
DEPARTMENT OF
TRANSPORTATION
8101 CINDER BED RD.
LORTON, VA 22079

Huntington Service Lane Renovations

1157-SP-001-2

AEGEIVED Department of Planning & Zonling

NOV 0 1 2012

Zoning Evaluation Division



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## wendel

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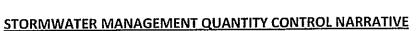
WILLIAM S. SPRINGER De Lic. No. 024778

NO. BY REVISIONS DATE WG. TITLE

> SPECIAL PERMIT EXHIBIT PLAT

DATE 11/01/12		
SCALE 1" = 30'		
DWN. KAB	CHK.	WSS
PROJ. No. 07077-04C		

002



THE SITE OF THE HUNTINGTON FEEDER BUS FACILITY IS APPROXIMATELY 6.2 ACRES AND WAS DEVELOPED PER THE SITE PLAN DATED DECEMBER 10, 1985 BY SPRINGFIELD ASSOCIATES SITE ENGINEERS. THE HUNTINGTON BUS FACILITY IS LOCATED IN NEWINGTON ON THE NORTH SIDE OF ALLEN PARK ROAD AT THE INTERSECTION WITH CINDER BED ROAD AND IS WITHIN THE LONG BRANCH WATERSHED. THE SITE IS BOUND BY CINDER BED ROAD TO THE WEST, ALLEN PARK ROAD TO THE SOUTH, OPEN WOODLAND TO THE EAST AND WAREHOUSE SPACE TO THE NORTH. THE SITE GENERALLY SLOPES FROM THE EAST TO THE WEST WITH THE SITE DRAINAGE BEING COLLECTED IN A STORM DRAIN SYSTEM WHICH CONVEYS DRAINAGE TO THE EXISTING STORMWATER MANAGEMENT POND LOCATED ON THE PARCEL TO THE SOUTH ON THE OPPOSITE SIDE OF ALLEN PARK ROAD. THE STORMWATER MANAGEMENT POND WHICH SERVICES THE SITE WAS CONSTRUCTED WITH THE SITE PLAN DATED 1985 WHICH ALSO DEVELOPED THE REST OF THE SITE.

THE PROPOSED IMPROVEMENTS TO THE SITE CONSIST OF ADDING TWO MAINTENANCE BAYS AND WIDENING THE ACCESS DRIVE WHICH PROVIDES VEHICULAR CIRCULATION AROUND THE MAINTENANCE FACILITY. THE PROPOSED MAINTENANCE BAYS ARE BEING CONSTRUCTED ON TOP OF EXISTING CONCRETE PAVING AND THEREFORE DO NOT REPRESENT AND INCREASE IN THE IMPERVIOUS AREA OF THE SITE. THE WIDENING OF THE ACCESS DRIVE CREATES AN ADDITION TO THE SITE IMPERVIOUS AREA OF 0.08 ACRES.

THE PROPOSED IMPROVEMENTS TO THE SITE DO NOT GREATLY CHANGE THE EXISTING DRAINAGE PATTERNS. THE DRAINAGE FROM THE ADDITIONAL IMPERVIOUS AREA CREATED WITH THIS PLAN SHEET FLOWS TO EXISTING INLET 12 AND THE PROPOSED ROOF AREA OF THE ADDITION TO THE BUILDING IS COLLECTED AND CONVEYED TO EXISTING STRUCTURE 13 VIA THE EXISTING ROOF DRAIN COLLECTION SYSTEM. PROPOSED DRAINAGE DIVIDES ARE SHOWN ON SHEET CO17. IN ORDER TO ACCOMMODATE THE ADDITIONAL SERVICE BAYS AND THE REQUIRED GRADE, THE EXISTING TRAVEL WAY HAS BEEN RE-GRADED TO PULL THE HIGH POINT OF THE TRAVEL WAY FURTHER TO THE SOUTH TO ALLOW FOR ACCEPTABLE GRADES IN FRONT OF THE SERVICE BAYS. ADDITIONAL AREA IN THE PROPOSED CONDITION WILL DRAIN TO EXISTING STRUCTURE 10. EXISTING STRUCTURE HAS BEEN ANALYZED IN THE PROPOSED CONDITION AND HAS THE REQUIRED INLET CAPACITY AND PIPE CAPACITY TO ACCOMMODATE THE ADDITIONAL DRAINAGE. THE EXISTING STORM DRAIN SYSTEM HAS BEEN ANALYZED FROM EXISTING INLET 10 DOWNSTREAM TO EXISTING STRUCTURE 16 WHICH IS THE OUTLET TO THE EXISTING STORMWATER MANAGEMENT POND. CALCULATIONS FOR CAPACITY AND HYDRAULIC GRADE LINE ARE SHOWN ON SHEET C017.

THE 1985 SITE PLAN WHICH DEVELOPED THE SITE AND DESIGNED THE STORMWATER MANAGEMENT POND WHICH SERVICES THE SITE PROVIDED STORMWATER MANAGEMENT QUANTITY CONTROL FOR THE 6.2 ACRES HUNTINGTON BUS FACILITY SITE AS WELL AS FOR AN ADDITIONAL 18.8 ACRES. PER THE 1985 SITE PLAN, THE PRE-DEVELOPMENT AND POST-DEVELOPMENT FLOWRATES FOR THE 6.2 ACRE HUNTINGTON BUS FACILITY SITE ARE LISTED IN THE TABLE BELOW.

	Pre-Development	Post-Development (after detention in existing SWM pond)
2 Year peak runoff, CFS	11.83	11.83
10 Year peak runoff,		
CFS	15.78	15.78

THE EXISTING STORMWATER MANAGEMENT POND WAS SIZED TO REDUCE THE POST-DEVELOPMENT 2 YEAR AND 10 YEAR PEAK RUNOFF RATES TO PRE-DEVELOPMENT LEVELS AS SHOWN IN THE TABLE ABOVE FROM INFORMATION PROVIDED IN THE 1985 SITE PLAN. THE PRE-DEVELOPMENT AND POST-DEVELOPMENT FLOWRATES WERE CALCULATED USING THE RATIONAL METHOD AND A CONSERVATIVE ASSUMED POST-DEVELOPMENT WEIGHTED "C" VALUE OF 0.90 TO ALLOW FOR FUTURE DEVELOPMENT AT THE 6.2 ACRE HUNTINGTON BUS FACILITY SITE. THESE CALCULATIONS CAN BE FOUND ON SHEETS CO16 AND CO17. PER THE STORM SEWER CALCULATIONS FOR THE HUNTINGTON BUS FACILITY SITE FROM THE 1985 SITE PLANS AND THE CURRENT IMPERVIOUS AREA CONSTRUCTED AT THE SITE, THE ACTUAL COMPUTED "C" VALUE FOR THE 6.2 ACRES SITE, NOT INCLUDING THE IMPERVIOUS AREA PROPOSED WITH THIS PLAN, IS 0.77. SEE THE SUMMARY TABLE BELOW.

PROJECT AREA/-

90% CONFLUENCE

OUTFALL//TO POND-

Total Site Area, (AC)	6.20
Assumed Post-Development "C" Value per 1985 Site Plan	0.90
Assumed Post-Development Impervious Area per 1985 Site Plan, (AC)	6.20
Actual Post-Develoment Impervious Area per 1985 Site Plan, (AC)	4.70
Computed Post-Development "C" Value per 1985 Site Plan	0.77
Proposed Additional Impervious Area, (AC)	0.08
Total Proposed Post-Development Impervious Area, (AC)	4.78
Computed Proposed Post-Development "C" Value	0.78

THE PROPOSED DEVELOPMENT AND WIDENING OF THE ACCESS DRIVE AROUND THE ADDITION WILL RESULT IN AN ADDITIONAL 0.08 ACRES OF IMPERVIOUS AREA. AS SHOWN IN THE TABLE ABOVE, PER THE 1985 SITE PLAN, THE EXISTING STORMWATER MANAGEMENT POND WAS DESIGNED FOR THE ENTIRE 6.2 ACRE HUNTINGTON BUS FACILITY SITE TO BE IMPERVIOUS TO ALLOW FOR FUTURE DEVELOPMENT. HOWEVER, THE ACTUAL IMPERVIOUS AREA EXISTING AT THE SITE IS 4.70 ACRES. WITH THE ADDITION OF THE 0.08 ACRES OF IMPERVIOUS AREA PROPOSED WITH THIS PLAN, THE TOTAL POST-DEVELOPMENT SITE IMPERVIOUS AREA IS ONLY 4.78 ACRES, WHICH IS 1.42 ACRES OF IMPERVIOUS AREA BELOW WHAT THE EXISTING STORMWATER MANAGEMENT POND WAS DESIGNED TO HANDLE AS THE POST-DEVELOPMENT CONTRIBUTION FROM THE 6.2 ACRE SITE. CONSEQUENTLY, THE EXISTING STORMWATER MANAGEMENT POND SERVICING THE SITE IS ADEQUATE FOR THE IMPROVEMENTS PROPOSED WITH THIS PLAN.

GRAPHICAL PURPOSES TO DEMONSTRATE THE EXISTING PIPE NETWORK ONLY. CLOSED STORM SEWER SYSTEM OUTFALL:

EXIST.

SWM PONE

TOTAL DA TO

STR. 13

4.79 AC

HUNTINGTON BUS FACILITY

ALLEN PARK ROAD

SOLID WASTE

**OPERATIONS CENTER** 

TOTAL DA TO STRS. 25, 26, 27

9.51 AC

NOTE: OFFSITE PIPES AND STRUCTURES ARE SHOWN FOR

THE PROPOSED IMPROVEMENTS TO THE SITE DO NOT INCLUDE THE ADDITION OF ANY NEW STORM SEWER PIPING, EXCEPT FOR THE UNDERDRAIN CONNECTIONS FROM THE PROPOSED FILTERRA UNITS INTO EXISTING STRUCTURE 12 AND EXISTING STRUCTURE 10. THE AREA WITHIN THE PROJECT LIMITS, EXCEPT FOR A SMALL AREA OF APPROXIMATELY 500 SQUARE FEET, IS EITHER COLLECTED BY THE EXISTING STORM DRAIN SYSTEM WITHIN THE PERIMETER CURB OR SHEET FLOWS DOWN THE EXISTING SLOPE TO THE EXISTING CURB INLETS ALONG ALLEN PARK ROAD AND IS CONVEYED TO THE EXISTING STORMWATER MANAGEMENT POND SOUTH OF THE SITE. A SMALL 380 SQUARE FOOT AREA WHICH IS NOT COLLECTED IN THE EXISTING STORM SYSTEM FLOWING TO THE POND IS UNCHANGED FROM EXISTING CONDITIONS AND IS COLLECTED IN AN EXISTING CURB INLET ALONG ALLEN PARK ROAD. TO SATISFY ADEQUATE OUTFALL REQUIREMENTS, THE EXISTING STORM SEWER SYSTEM HAS BEEN ANALYZED FOR THE POST-DEVELOPMENT 10 YEAR STORM FROM EXISTING STRUCTURE 10 DOWNSTREAM TO EXISTING STRUCTURE 16 AND THE EXISTING STORMWATER MANAGEMENT POND. AS INDICATED IN THE STORMWATER QUANTITY NARRATIVE, THE EXISTING STORMWATER MANAGEMENT POND WAS DESIGNED TO HANDLE THE PROPOSED DEVELOPMENT SHOWN ON THIS PLAN AND THE DISCHARGE OUT OF THE EXISTING POND MATCHES PRE-DEVELOPMENT LEVELS.

ADEQUATE OUTFALL NARRATIVE

ADEQUATE OUTFALL FOR THIS PROJECT HAS BEEN EVALUATED PER THE CRITERIA OF 6-203.2 & 6-0203.2A WHICH STATES, "THE EXTENT OF THE REVIEW OF THE DOWNSTREAM DRAINAGE SYSTEM SHALL BE: TO A POINT THAT IS AT LEAST 150 DOWNSTREAM OF A POINT WHERE THE RECEIVING PIPE OR CHANNEL IS JOINED BY ANOTHER THAT HAS A DRAINAGE AREA THAT IS AT LEAST 90 PERCENT OF THE SIZE OF THE FIRST DRAINAGE AREA AT THE POINT OF CONFLUENCE."

THE PROPOSED PROJECT DOES NOT CREATE ANY NEW OUTFALLS TO THE EXISTING STORM DRAIN SYSTEM BUT DOES CONVERT 0.08 ACRES OF EXISTING LAWN TO NEW IMPERVIOUS AREA. HOWEVER, DESPITE THE ADDITIONAL IMPERVIOUS AREA, THE OVERALL DRAINAGE AREA OF THE EXISTING STORM DRAIN SYSTEM DOES NOT INCREASE. THE EXISTING STORM DRAIN INLET AND PIPE SYSTEM COLLECTS THE RUNOFF FROM THE PROJECT SITE WITH THE NEW IMPERVIOUS AREA AND LOCAL CHANGES TO THE DRAINAGE AREAS OF STRUCTURES OCCURRING WITHIN THE DRAINAGE AREA TO EXISTING STRUCTURE 13. EXISTING STRUCTURE 13 IS DEFINED AS THE "STARTING POINT" FOR THE OUTFALL ANALYSIS AS IT IS WHERE THE RUNOFF FROM DRAINAGE AREAS MODIFIED BY THE PROPOSED PROJECT MEETS THE EXISTING STORM DRAIN SYSTEM. THE PROPOSED DRAINAGE SHED AND "FIRST DRAINAGE AREA" AT THE "STARTING POINT" OF EXISTING STRUCTURE 13 IS EQUAL TO 4.79 ACRES. A PORTION OF THE DRAINAGE AREA TO EXISTING INLET 18 LIES WITHIN THE PROJECT AREA HOWEVER NO NEW AREA, IMPERVIOUS OR OTHERWISE. IS BEING ADDED TO THE DRAINAGE AREA OF EXISTING INLET 18. EXISTING INLET 18 IS NOT BEING MODIFIED IN ANY WAY SO IT IS CONSIDERED PART OF THE EXISTING DRAINAGE SHED NOT THE PROPOSED DRAINAGE SHED.

EXISTING STRUCTURE 14 HAS TWO POINTS OF INFLOW, FROM EXISTING STRUCTURE 13, AND FROM THE STORM DRAIN PIPE WITH THE 6.10 ACRE DRAINAGE SHED. THE TOTAL DRAINAGE AREA AT EXISTING STRUCTURE 14 IS 10.89 ACRES. THE PROPOSED DRAINAGE SHED IS 4.79 ACRES. SUBTRACTING 4.79 FROM 10.89 RESULTS IN THE 6.10 ACRE DRAINAGE AREA. 6.10 ACRES IS AT LEAST 90% OF THE "FIRST DRAINAGE AREA" OF 4.79 ACRES. THEREFORE, THE EXTENT OF REVIEW IS 150' DOWNSTREAM OF EXISTING INLET 14.

1 inch = 100 ft.

EXISTING STORM DRAIN PIPES 14-15 AND 15-16 HAVE A TOTAL LENGTH OF 275' WHICH IS GREATER THAN THE 150' EXTENT OF REVIEW FOR ADEQUACY, STABILITY, AND CAPACITY. AT EXISTING STRUCTURE 16, THE STORM SYSTEM OUTLETS INTO AN EXISTING STORMWATER MANAGEMENT POND SHOWN TO BE ADEQUATE IN THE STORMWATER MANAGEMENT QUANTITY CONTROL NARRATIVE. THE EXISTING STORM SEWER SYSTEM BETWEEN EXISTING STRUCTURE 14 AND EXISTING STRUCTURE 16 IS 36" RCP. THE EXISTING STORM SEWER SYSTEM FROM THE PROJECT SITE TO THE OUTFALL AT EXISTING STRUCTURE 16 HAS BEEN PROFILED IN LIEU OF PROVIDING CROSS-SECTIONS. PIPE CAPACITY CALCULATIONS AND HYDRAULIC GRADE LINE CALCULATIONS HAVE BEEN PERFORMED AND CAN BE FOUND ON SHEET CO21 ALONG WITH THE PROFILE. THE PROPOSED FLOW IN THE PIPE IS BELOW THE CALCULATED CAPACITY AND THE HYDRAULIC GRADE LINE IS ADEQUATE. THE OUTFALL OF EXISTING STRUCTURE 16 TO THE STORMWATER MANAGEMENT POND WAS OBSERVED TO BE IN GOOD CONDITION AND SHOWED NO SIGNS OF EROSION OR INADEQUACY. HENCE, THERE WILL BE NO ADVERSE IMPACT TO ADJACENT OR DOWNSTREAM PROPERTIES AND ADEQUACY OF THE OUTFALL IS

## WATER QUALITY COMPLIANCE

TOTAL DA TO STR. 14 6.10 AC

> FAIRFAX COUNTY CRITERIA AND THE NORTHERN VIRGINIA BMP HANDBOOK METHODOLOGIES HAVE BEEN USED TO MEET THE WATER QUALITY REQUIREMENTS FOR THIS PROJECT. THE GOAL IS TO PROVIDE 24.48% PHOSPHORUS REMOVAL FOR THE SITE BASED ON THE PROPOSED INCREASED IMPERVIOUS AREA CREATED BY THE REDEVELOPMENT. THIS IS BASED UPON REQUIREMENTS CONTAINED IN THE NORTHERN VIRGINIA BMP HANDBOOK (11/6/92, PAGE AMENDED 9/9/94), SECTION 111a, "PHOSPHORUS REMOVAL - OCCOQUAN METHOD". THIS PROJECT IS LOCATED IN A CHESAPEAKE BAY PRESERVATION AREA AND WILL BE CLASSIFIED AS A REDEVELOPMENT. IN ORDER TO MEET THESE CRITERIA, THE FOLLOWING HAS BEEN PROPOSED.

> TREE BOX FILTER: TO MEET THE WATER QUALITY REQUIREMENT, FILTERRA® TREE BOX FILTERS WERE SELECTED FOR IMPLEMENTATION. THESE FACILITIES ARE DESIGNED TO CAPTURE POLLUTANTS IN STORMWATER RUNOFF AS IT FLOWS THROUGH A SPECIALLY DESIGNED FILTER MEDIA MIXTURE CONTAINED IN A LANDSCAPED CONCRETE CONTAINER. THE FILTER MEDIA CAPTURES AND IMMOBILZES POLLUTANTS; THOSE POLLUTANTS ARE THEN DECOMPOSED, VOLATILIZED AND INCORPORATED INTO THE BIOMASS OF THE FILTERRA® SYSTEM'S MICRO/MACRO FAUNA AND FLORA. STORMWATER RUNOFF FLOWS THROUGH THE MEDIA AND INTO AN UNDERDRAIN SYSTEM AT THE BOTTOM OF THE CONTAINER, WHERE THE TREATED WATER IS DISCHARGED. HIGHER FLOWS BYPASS THE FILTERRA® VIA A DOWNSTREAM INLET STRUCTURE.

> THE PHOSPHORUS REMOVAL SUMMARY (OCCOQUAN METHOD) TABLE SHOWN ON THIS SHEET SUMMARIZES THE BMP CALCULATIONS. THE RESULTANT TOTAL PHOSPHROUS REMOVAL FOR THIS SITE





FAIRFAX COUNTY DEPARTMENT OF TRANSPORTATION 8101 CINDER BED RD. LORTON, VA 22079

**Huntington Service Lane** Renovations

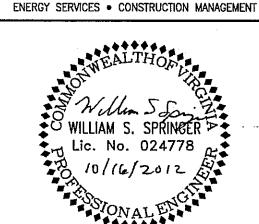
1157-SP-001-2 Application No. SP 2012-MV-083

Chairman, Board of Zoning Appeals

WILLOW WOOD II, SUITE 240 FAIRFAX, VA 22030 (P) 703 246-0028 (F) 703 246-0123

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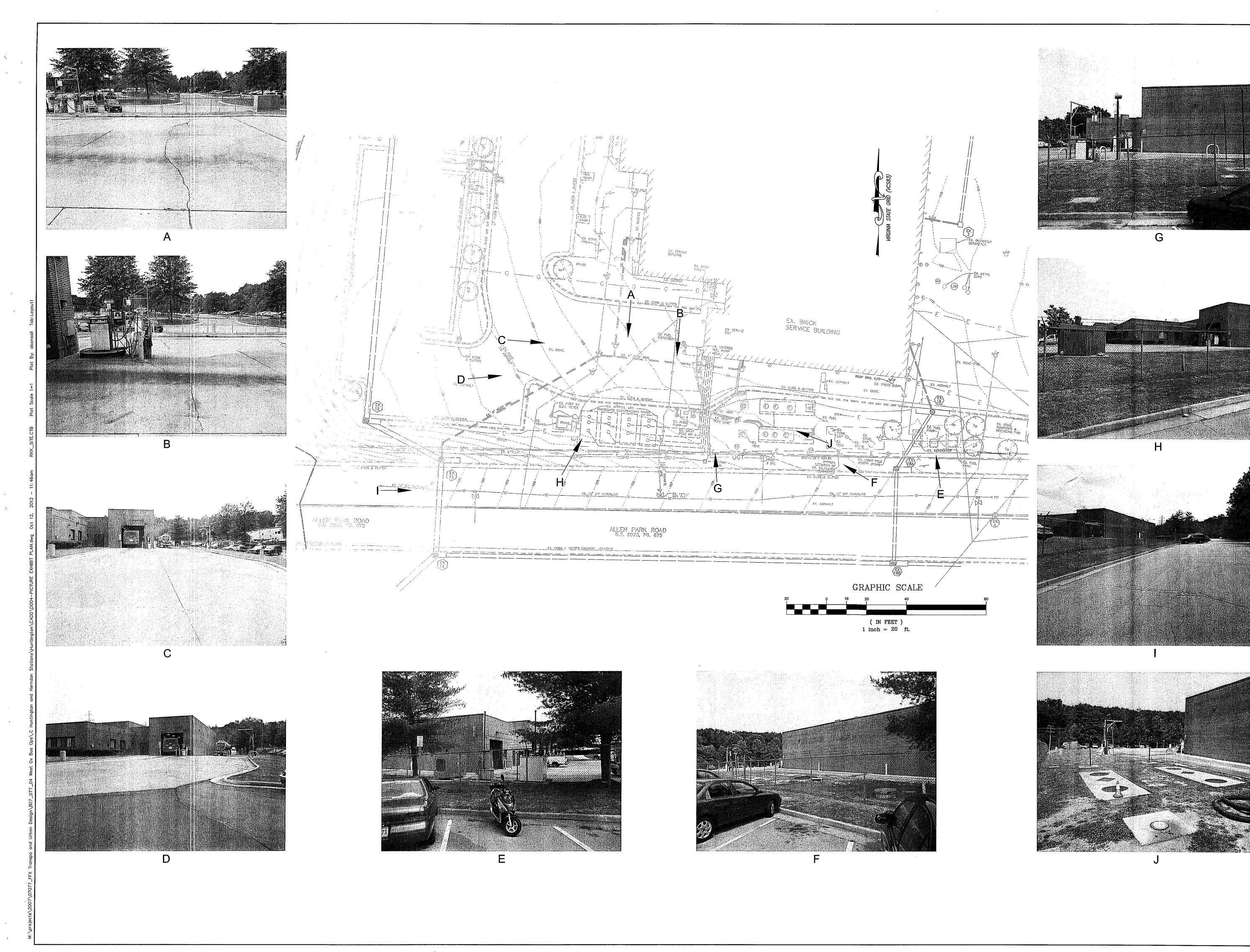
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DWG. TITLE

REVISIONS

**ADEQUATE** OUTFALL

DATE	10/16/12		
SCALE	1" = 100'		
DWN.	KAB	CHK.	wss







FAIRFAX COUNTY DEPARTMENT OF TRANSPORTATION 8101 CINDER BED RD. LORTON, VA 22079

Huntington Service Lane Renovations

ation No. SP 2012 - MV - 083

Chairman, Board of Zoning Appeals



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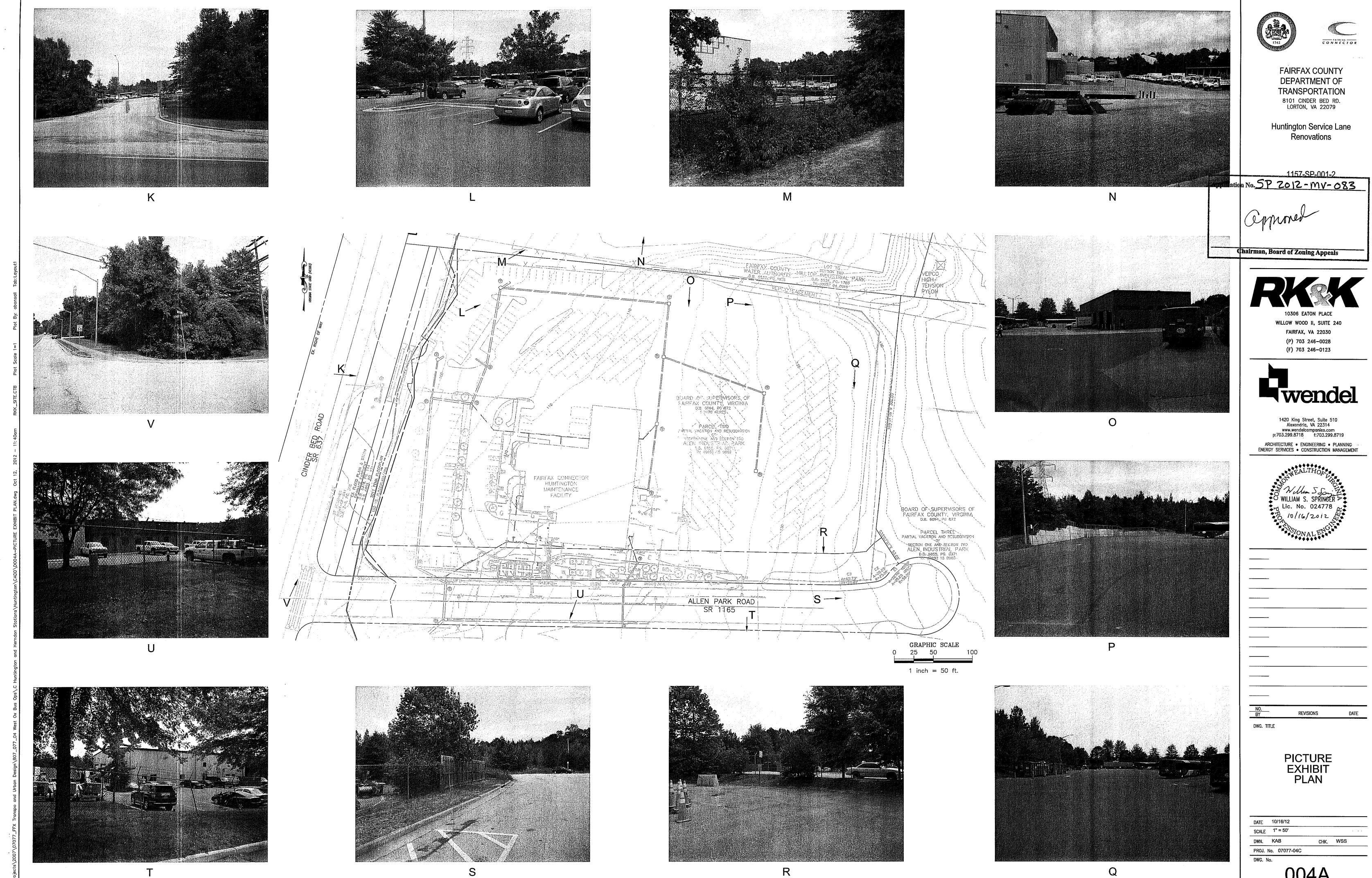


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PICTURE EXHIBIT PLAN

DATE 10/16/12 SCALE 1" = 20'

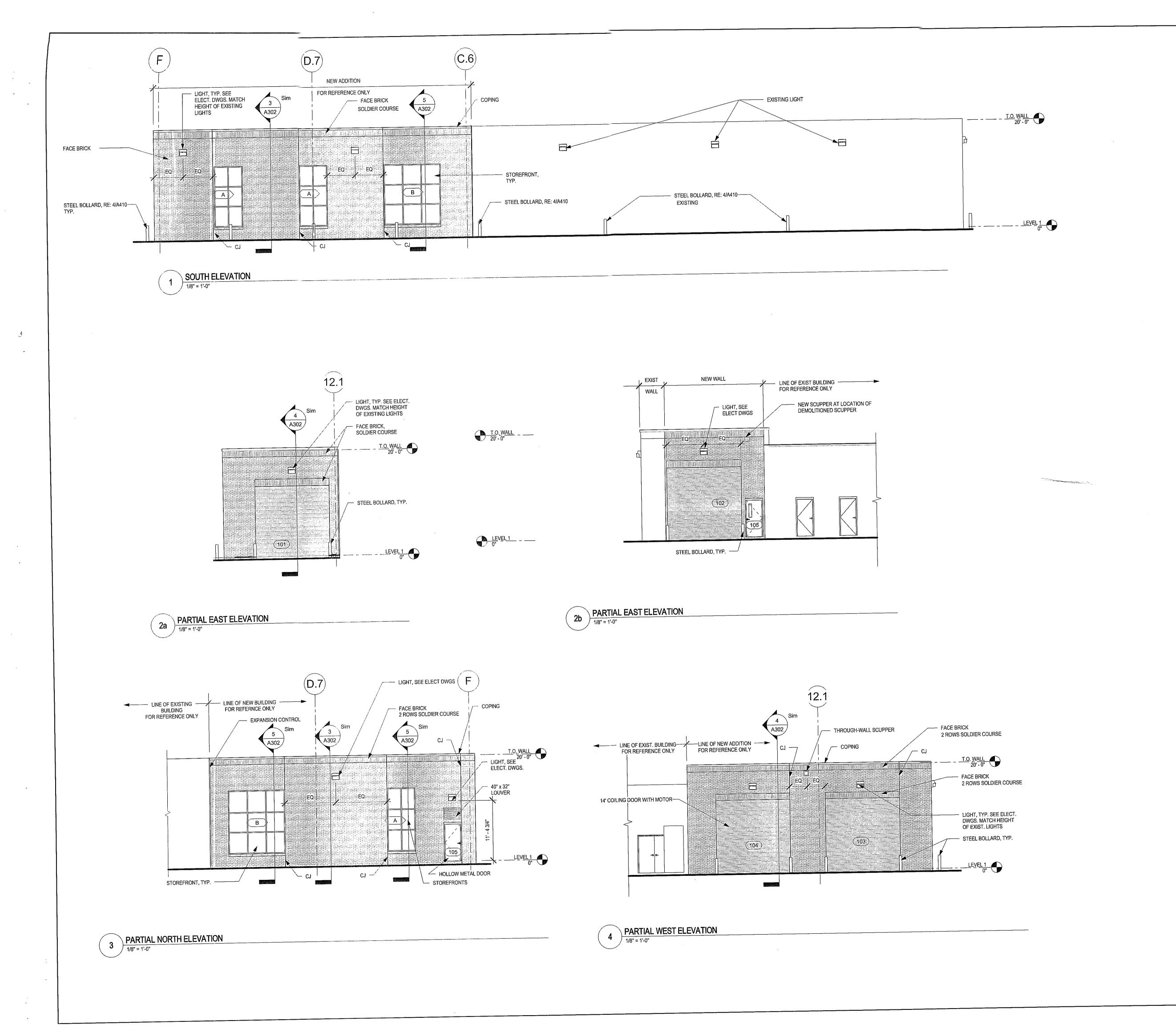
DWN, KAB PROJ. No. 07077-04C







004A





CONNECTOR

FAIRFAX COUNTY
DEPARTMENT OF
TRANSPORTATION
8101 CINDER BED RD.
LORTON, VA 22079

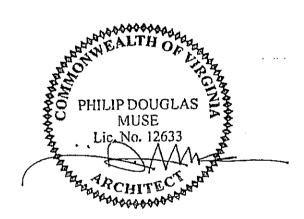
Huntington Service Lane Renovations

Bus Servicing Improvements



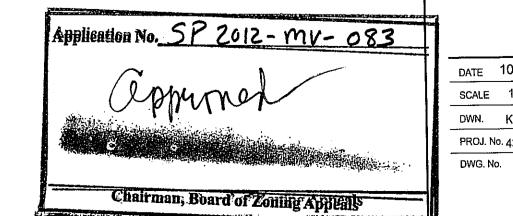


ARCHITECTURE ● ENGINEERING ● PLANNING ENERGY SERVICES ● CONSTRUCTION MANAGEMENT



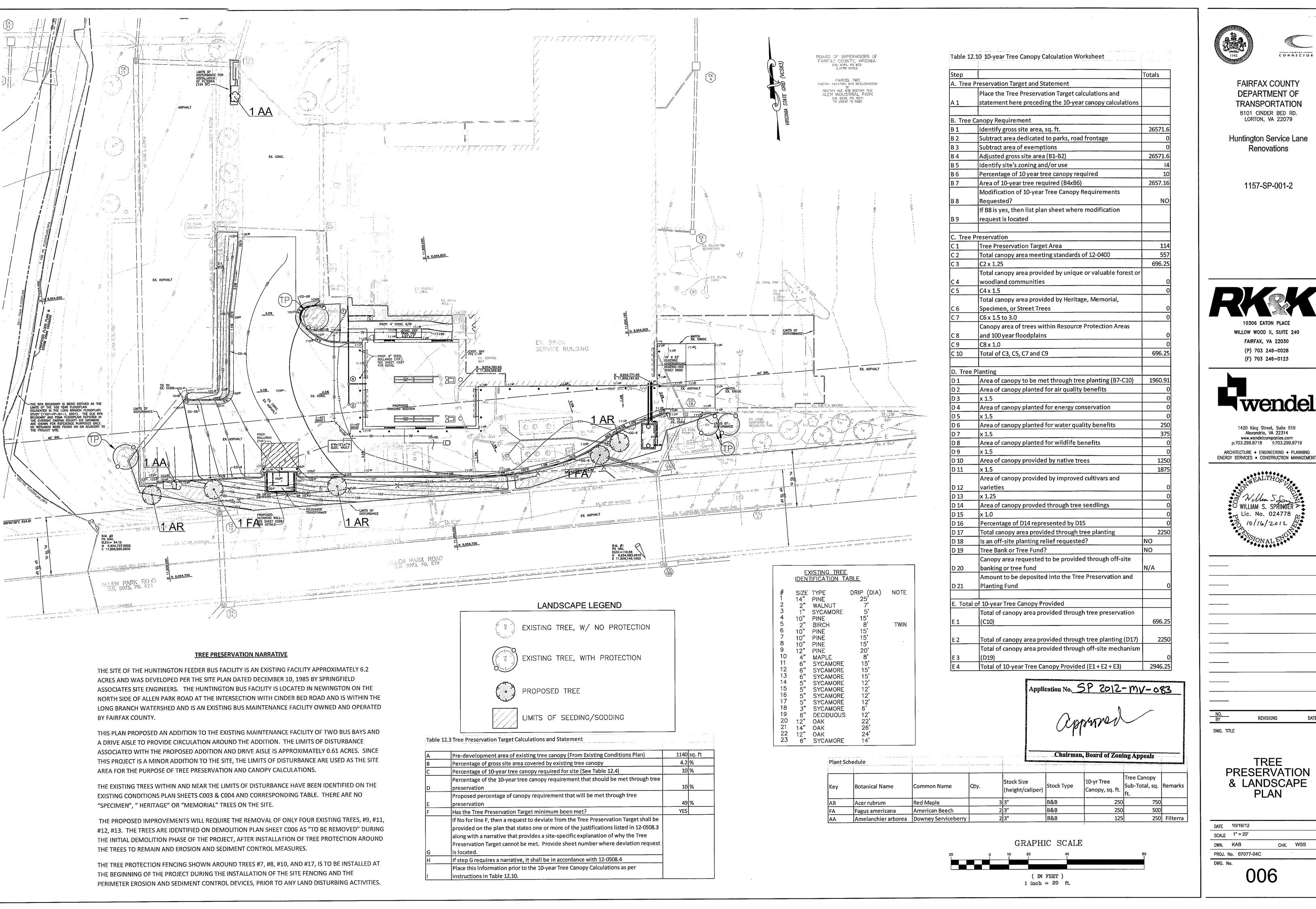
DWG. TITLE

**EXTERIOR ELEVATIONS** 



3			
	DATE 10/16/12		
	SCALE 1/8" = 1'-0"		
	DWN. KJP	снк.	JPK
	PROJ. No. 437102	•	

005







**FAIRFAX COUNTY DEPARTMENT OF TRANSPORTATION** 8101 CINDER BED RD. LORTON, VA 22079

**Huntington Service Lane** Renovations

1157-SP-001-2

WILLOW WOOD II. SUITE 240 FAIRFAX, VA 22030 (P) 703 246-0028 (F) 703 246-0123



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Willen 5 Sp \$rd Lic. No. 024778 10/16/2012

TREE **PRESERVATION** & LANDSCAPE PLAN

REVISIONS

SCALE 1" = 20' DWN. KAB CHK. WSS PROJ. No. 07077-04C

006